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## Claims

## We claim:

1. A printed circuit board that includes:

a power layer for use in providing electrical power to circuit components;

a ground layer for use in carrying electrical current away from the circuit components; and

a loss element connected electrically between the power layer and ground layer to suppress electrical noise caused by changes in current flow in the circuit components.

- 2. The circuit board of claim 1, also including a capacitive element connected in series with the loss element between the power and ground layers.
- 3. The circuit board of claim 2, where the loss element and the capacitive element reside in two different layers of the circuit board.
- 4. The circuit board of claim 1, where the loss element resides in an internal layer of the circuit board.
- 5. The circuit board of claim 4, where the loss element resides within an internal power or ground plane.
  - 6. The circuit board of claim 1, where the loss element includes a resistor.
- 7. The circuit board of claim 6, where the resistor has a resistance value on the order of 1-10 ohms.
- 8. The circuit board of claim 6, where the resistor is formed from a polymer thick film (PTF) material.

9. A method for use in suppressing electrical noise in a printed circuit board, the method including:

placing a power layer on the circuit board for use in providing electrical power to circuit components;

placing a ground layer on the circuit board for use in carrying electrical current away from the circuit components; and

electrically connecting a loss element between the power layer and ground layer to suppress electrical noise caused by changes in current flow in the circuit components.

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- 10. The method of claim 9, also including a step of connecting a capacitive element in series with the loss element between the power and ground layers.
- 11. The method of claim 10, where the loss element and the capacitive element are placed on different layers of the circuit board.
- 12. The method of claim 10, where the loss element is placed in an internal layer of the circuit board.

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13. The method of claim 12, where the loss element is placed within an internal power or ground plane.

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14. The method of claim 9, where connecting the loss element involves placing a resistor on the circuit board.

- 15. The method of claim 14, where placing the resistor involves placing a device with a resistance value on the order of 1-10 ohms.
- 16. The method of claim 14, where placing the resistor involves placing a polymer thick film (PTF) material on the board.

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- 17. A printed circuit board that includes:
- electronic circuitry;
- a power layer for use in providing electric current to the electronic circuitry; and
- a loss element connected electrically to the power layer to suppress electrical noise created by sudden changes in current flow in the electronic circuitry.
- 18. The circuit board of claim 17, where the loss element is formed within the power layer.
- 19. The circuit board of claim 17, where the loss element includes a polymer thick film (PTF) resistor.